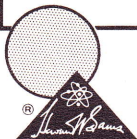
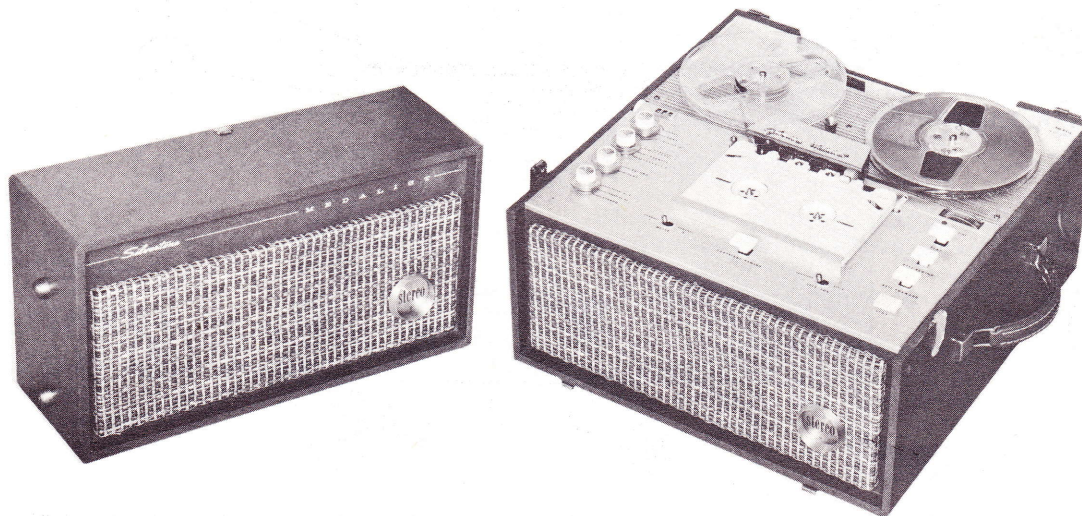


PHOTOFACT® Folder

SILVERTONE MODEL 1236
(Ch. 528.58150, 528.59550)SILVERTONE MODEL 1236
(Ch. 528.58150, 528.59550)SILVERTONE MODEL 1236
(Ch. 528.58150, 528.59550)

GENERAL INFORMATION

The Silvertone Model 1236 is a two-speed, quarter-track tape recorder. Reels or cartridges can be used.

Pushbuttons are provided for each mode of operation. A VU meter is used for recording level and a digital tape counter is used for logging various sections of the tape.

The Model 1236 will play and record monaural and stereo on quarter-track or half-track on either reels or cartridge.

Recordings can be made from a radio, television, or phonograph as well as those made directly from the microphone.

This recorder is to be connected to an outlet supplying 110-117 volts, AC, 60 cycles only.

Supplied By:

Sears, Roebuck & Company
925 South Homan Avenue
Chicago 7, Illinois

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of CQ510

the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1962 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America

DATE 6-62

SET 583

FOLDER 11

SET 583
FOLDER 11

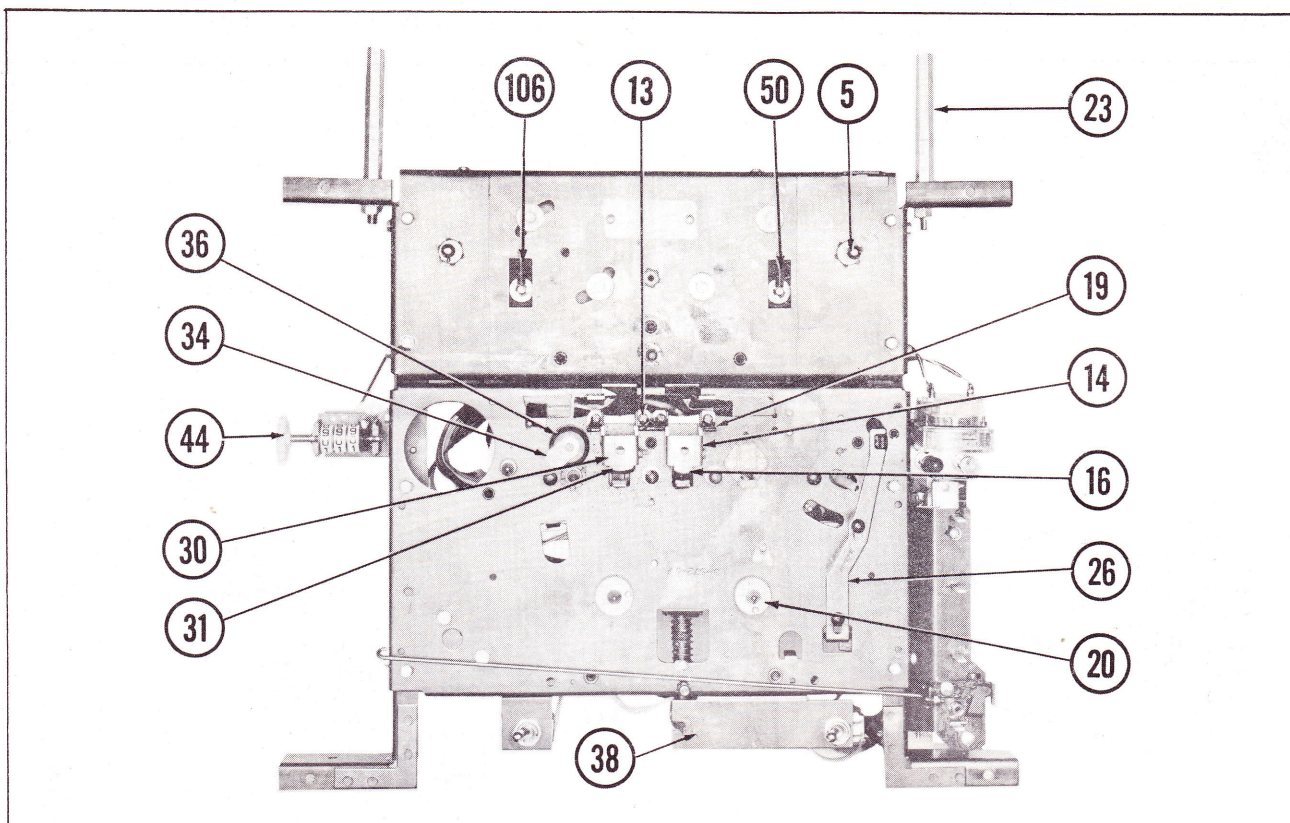


FIG. 1 TOP VIEW OF MECHANISM WITH COVERS REMOVED

FUNCTION OF CONTROLS AND JACKS

On-Off-Tone Monitor

Rotate in a clockwise direction to turn the recorder on. Further rotation increases the volume for monitoring while recording. During playback, clockwise rotation emphasizes treble; counterclockwise rotation emphasizes bass.

Volume - Channel One

Channel One Volume control is the inner knob. This controls the volume level of monaural tapes and channel one of stereo tapes. Rotate clockwise to increase the volume and counterclockwise to decrease the volume.

Volume - Channel Two

Channel Two Volume control is the outer knob. This control regulates the volume on channel two for stereo tapes. Clockwise rotation increases the volume and counterclockwise rotation decreases the volume.

Record - Play

To place the recorder in record mode, turn the control counterclockwise and depress the play control. When the stop control is depressed, the Record-Play control will return to the Play mode.

Track Selector

Selects the portion of tape that monaural or stereo sound will be recorded on or played back. A1B1

and A2B2 position is for monaural, and Stereo position is for stereo recording or playback.

Level Indicator

Indicates the recording level when making a recording. During playback, it is a balance indicator for the two channels for stereo tapes.

Selector Switch

Selects mode for reel operation or cartridge operation. Move to the right - for reel and to the left for cartridge.

Speed

With motor running, pull speed knob up for 3 3/4 ips and push down for 7 1/2 ips.

Play

When depressed, it engages the drive mechanism and starts the tape moving.

Stop

When depressed, it releases any button that is depressed and disengages the drive mechanism.

Fast Forward

When depressed, the tape will advance at a rapid speed to the desired portion of the tape.

FUNCTION OF CONTROLS AND JACKS (CON'T.)

Fast Rewind

When depressed, the tape is rewound at a rapid speed.

Cartridge Rewind

When depressed, the tape is rewound at a medium speed from the take-up hub.

Mike - Channel 1

This jack is the input for the microphone for making monaural recordings or for channel 1 when making stereo recording.

Mike - Channel 2

This jack is the input for the microphone for making stereo recordings.

Radio -Phono - Channel 1

This input is for making direct monaural recordings from a radio, television, or phonograph. It is channel 1 when making a stereo recording.

Radio-Phono - Channel 2

This input is the stereo channel when recording directly from a stereo source.

External Speaker - Channel 1

This is used when an external speaker is used in place of the built-in speaker.

External Speaker - Channel 2

This is used to connect the stereo speaker enclosure to play back channel 2 of stereo tapes.

External Amplifier - Channel 1

When a greater power output is desired, connect an external amplifier to this jack.

External Amplifier - Channel 2

When a greater power output for stereo operation is desired, connect an external amplifier of the same power rating as that used for channel 1 to this jack.

OPERATING INSTRUCTIONS

Threading the Tape

1. Make sure the stop button is depressed.
2. Place an empty reel on the take-up spindle (left) and a full reel on the supply spindle (right).
3. Unwind approximately 12 to 18 inches of tape from the feed reel, hold a section taut and insert it into the tape slot.
4. Insert the free end into the slot of the take-up reel.
5. Turn the take-up reel a few turns in a clockwise direction to take up all slack between reels and secure the tape to the reel.

Loading the Cartridge

1. Make sure the stop button is depressed.
2. Make sure all slack is taken up between hubs by turning the left hub counterclockwise and the right hub clockwise simultaneously.
3. Insert the cartridge so the opening at the rear center is aligned with the brake release post.
4. Press the cartridge down on each side so it is seated properly on the recorder.

Monaural Recording - Half Track

1. Thread the tape, see "Threading the Tape".
2. Depress the stop button.
3. Turn the On-Off-Tone-Monitor control clockwise to turn the recorder on.

4. Select the speed; speed control up for 3 3/4 ips, and down for 7 1/2 ips.
5. Set the track selector to A1B1.
6. Move the meter switch to the left for channel 1.
7. Move the selector switch to the right for reels and to the left for cartridge.
8. Plug the microphone into channel 1 mic jack.
9. Turn the Record/Play control counterclockwise and hold and adjust the volume control so the needle of the recording level indicator fluctuates in the normal range and then depress the play control.
10. Depress the stop control when the recording is completed.

Monaural Recording - Quarter Track

1. Repeat steps 1 thru 4 under "Monaural Recording - Half Track".
2. Set the track selector to A1B1.
3. Move the meter switch to the left to channel 1 position.
4. Move the selector switch to the right for reels or to the left for cartridge.
5. Plug the microphone into channel 1 mic jack.
6. Turn the Record/Play control counterclockwise and hold and adjust the volume control so the needle of the recording level indicator fluctuates

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OPERATING INSTRUCTIONS (CON'T.)

in the normal range and then depress the play control.

7. Depress the stop control when the recording is completed.
8. Remove the reels or cartridge, turn them over; place on the reel spindles or reload the cartridge, and proceed with the recording.
9. Depress the stop button when the recording is completed.
10. Remove the reels or cartridge, turn them over and rethread the tape or reload the cartridge.
11. Set the track selector to A2B2.
12. Proceed as outlined above.

Monaural Playback – Half Track

1. Depress the stop button.
2. Thread the tape or load the cartridge.
3. Turn the On/Off-Tone-Monitor control clockwise to turn the unit on.
4. Select the correct tape speed.
5. Set the track selector switch to A1B1.
6. Move the selector switch to right for reels or to the left for cartridge.
7. Record/ Play control in Play position.
8. Adjust channel 1 volume control to the desired level.
9. After the recording has been played back, depress the stop button, remove the reels or cartridge, turn them over and rethread the tape or reload the cartridge and proceed as outlined above.

Monaural Playback – Quarter Track

1. Depress the stop button.
2. Thread the tape or load the cartridge.
3. Turn the On/Off-Tone-Monitor control clockwise to turn the unit on.
4. Select the correct tape speed.
5. Set the track selector to A1B1.
6. Move the selector switch to the right for reels or to the left for cartridge.
7. Record/ Play control in Play position.
8. Adjust channel 1 volume control to the desired level.
9. After the recording has been played, depress the stop button, remove the reels or cartridge,

turn them over, rethread the tape or reload the cartridge, and proceed as before.

10. After the second track has been played, depress the stop button, move the track selector switch to A2B2, and follow the same procedure used for playing tracks A1B1.

Stereo Record – Two Track

1. Thread the tape or load the cartridge.
2. Depress the stop button.
3. Turn the On/Off-Tone-Monitor control clockwise to turn the unit on.
4. Select the correct tape speed.
5. Set the track selector to Stereo.
6. Move the meter switch to the left for channel 1 and to the right for channel 2.
7. Move the selector switch to the right for reels and to the left for cartridge.
8. Plug the microphones into channel 1 and 2 mic inputs.
9. Turn the Record/ Play control counterclockwise and hold and adjust channels 1 and 2 volume controls so the needle of the recording level indicator fluctuates in the normal range for each channel and then depress the play control.
10. Depress the stop control when the recording is completed.

Stereo Record – Four Track

1. Repeat steps 1 thru 9 under "Stereo Record-Two Track".
2. At the end of the reel or cartridge, turn them over and rethread the tape or reload the cartridge and continue as outlined in "Stereo Record-Two Track".

Stereo Playback – Two Track

1. Thread the tape or load the cartridge.
2. Depress the stop button.
3. Turn the On/Off-Tone-Monitor control clockwise to turn the unit on.
4. Select the correct speed.
5. Turn the track selector switch to Stereo.
6. Move the meter switch to the left and adjust channel 1 volume control; then move the meter switch to the right and adjust channel 2 volume control to match channel 1.
7. Move the selector switch to the right for reels or to the left for cartridge.
8. Depress the play button.

OPERATING INSTRUCTIONS (CON'T.)

9. Depress the stop button when the playback is completed.

Stereo Playback — Four Track

1. Thread the tape or load the cartridge.
2. Depress the stop button.
3. Turn the On/Off-Tone-Monitor control clockwise to turn the unit on.
4. Select the correct speed.
5. Turn the track selector to Stereo.
6. Move the meter switch to the left and adjust channel 1 volume control; then move the meter switch to the right and adjust channel 2 volume control to match channel 1.
7. Move the track selector to the right for reels or to the left for cartridge.
8. Depress the play button.
9. Depress the stop button when the playback is completed.

To Record from Radio, Phonograph, or Television

Recordings may be made by one of three ways.

1. Direct Connection to Volume Control — Connect one end of a cable across the volume control. Plug the other end into channel 1 "Radio-Phono" jack. Proceed as described under "Monaural Recording".

NOTE: Make this connection on AC type units only.

2. Direct Connection to Speaker — Connect a cable with alligator clips on one end across the voice coil terminals of the speaker. Insert the plug end into channel 1 "Radio-Phono" jack. When recording stereo, connect another cable across the channel 2 speaker and insert the plug end into channel 2 "Radio-Phono" jack. Adjust the volume and tone controls of the sound source and proceed as under "Stereo Record".

NOTE: Make this connection on AC type units only.

3. Pickup from Loudspeaker through Microphone — Place the microphone 6 inches to 2 feet in front of the speaker. Turn the tone control to treble or high. Adjust the volume control to a normal listening level. Set the recording level and proceed as described under "Monaural or Stereo Recording".

Playing Phonograph Records through Amplifier

1. For monaural records, plug the record player or changer into the channel 1 "Radio-Phono" jack.
2. For stereo records, plug the record player or

changer into channel 1 and 2 "Radio-Phono" jacks.

NOTE: The record player or changer must have a high impedance cartridge.

3. Turn Play/Record control to Play.
4. Adjust the volume and tone control to a desired level.

External Speaker or Speakers

Plug the external speaker or speakers into channel 1 and 2 speaker jacks to improve the low frequency tone quality. Use 8-ohm external speakers to match the 8-ohm impedance of the recorders audio output transformer.

NOTE: The internal speaker or speakers are disconnected when using external speakers. Do not connect a plug into an external speaker jack without a speaker attached.

External Amplifier

For more power output, plug an external amplifier into channel 1 external speaker jack on monaural recordings. Plug an external amplifier into channel 2 external speaker jack as well as channel 1 for stereo recordings.

Fast Forward

To advance the tape at a high rate of speed to a desired spot on the tape, depress the fast forward control. To stop the tape movement and to release the fast forward control, depress the stop control.

Fast Rewind

To rewind the tape at a high rate of speed, depress the fast rewind control. To stop the tape movement, depress the stop control.

Cartridge Rewind

To rewind the tape in the cartridge at a medium speed, depress the cartridge rewind control. To stop the tape movement, release the control.

Splicing Reel Tape

1. Overlap the broken ends and cut on a diagonal.
2. Butt the ends together and splice with splicing tape.
3. Trim the splicing tape by cutting slightly into the edges of the magnetic tape.

Splicing Cartridge Tape

1. Remove two screws on front of cartridge and lift the cover off.
2. Remove the plastic sheet resting on the reels.
3. Press the metal tab at the rear of the cartridge forward and unwind approximately 3 inches of tape from each hub.

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FOLDER 11

OPERATING INSTRUCTIONS (CON'T)

4. Use the same splicing procedure used in splicing reel tape.
5. Press the metal tab on rear of cartridge forward and rotate the left hub counterclockwise until the tape is against the front of the cartridge.
6. Insert the tape into the plastic guides making certain the tape is not twisted and the dull side is facing out.
7. Simultaneously rotate the left hub counterclock-
- wise and the right hub clockwise to remove all slack between hubs.
8. Replace the plastic sheet, making certain it is laying flat and not binding on any parts.
9. Replace the top cover making certain the openings on the bottom cover align with the openings on the top cover.
10. Replace the two screws.

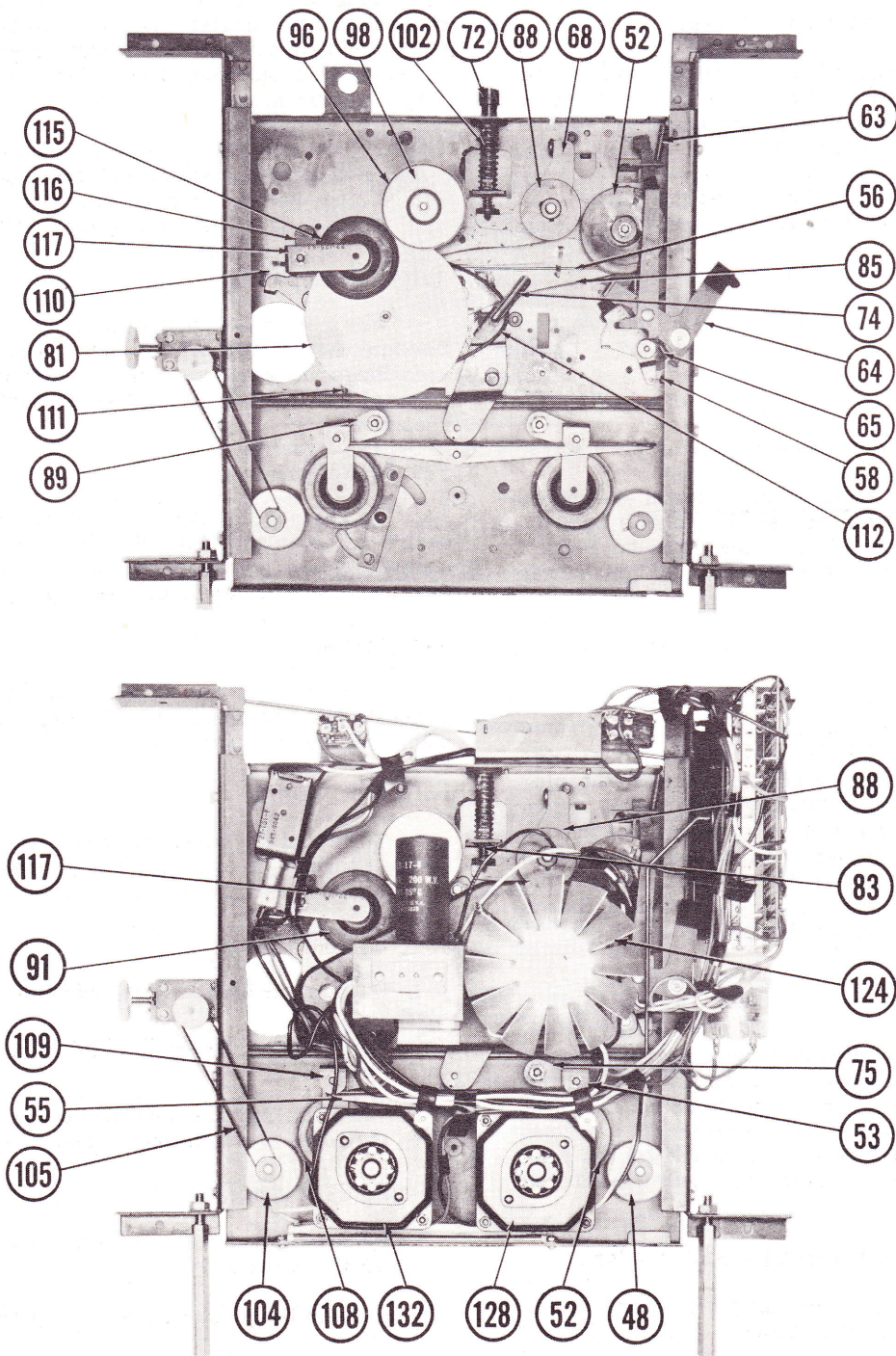
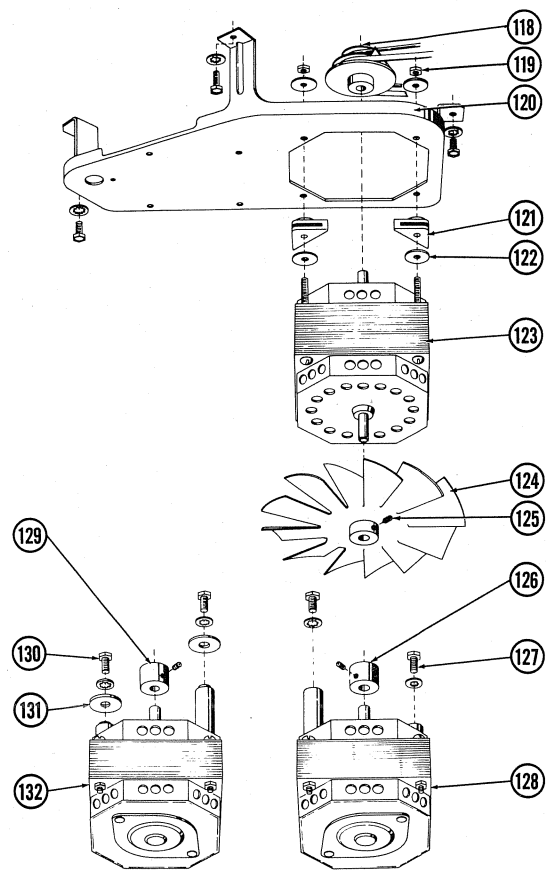
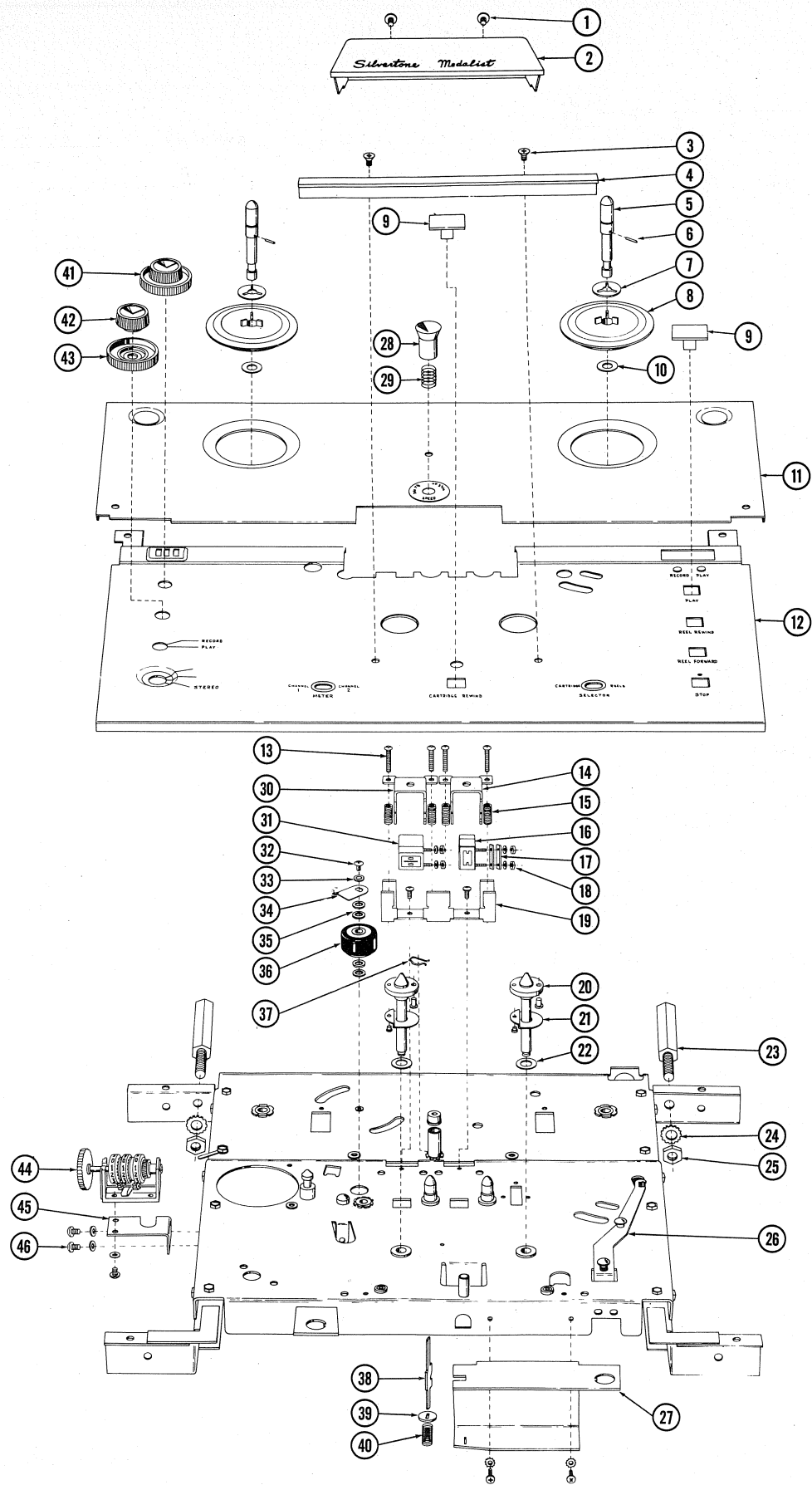


FIG. 2 BOTTOM VIEW OF MECHANISM



A PHOTOFACT "EXPLODED" VIEW
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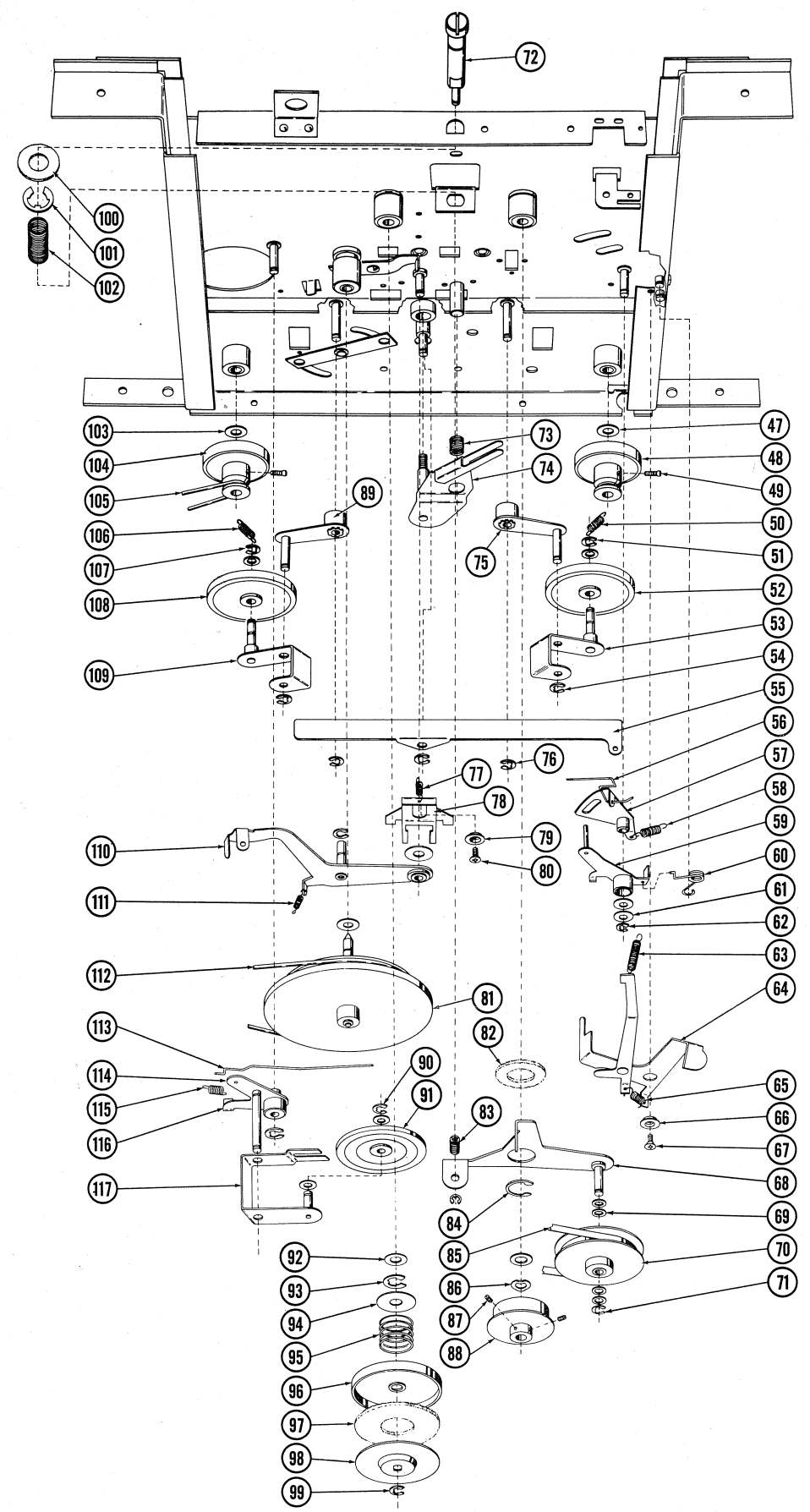


FIG. 3 EXPLODED VIEW

NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

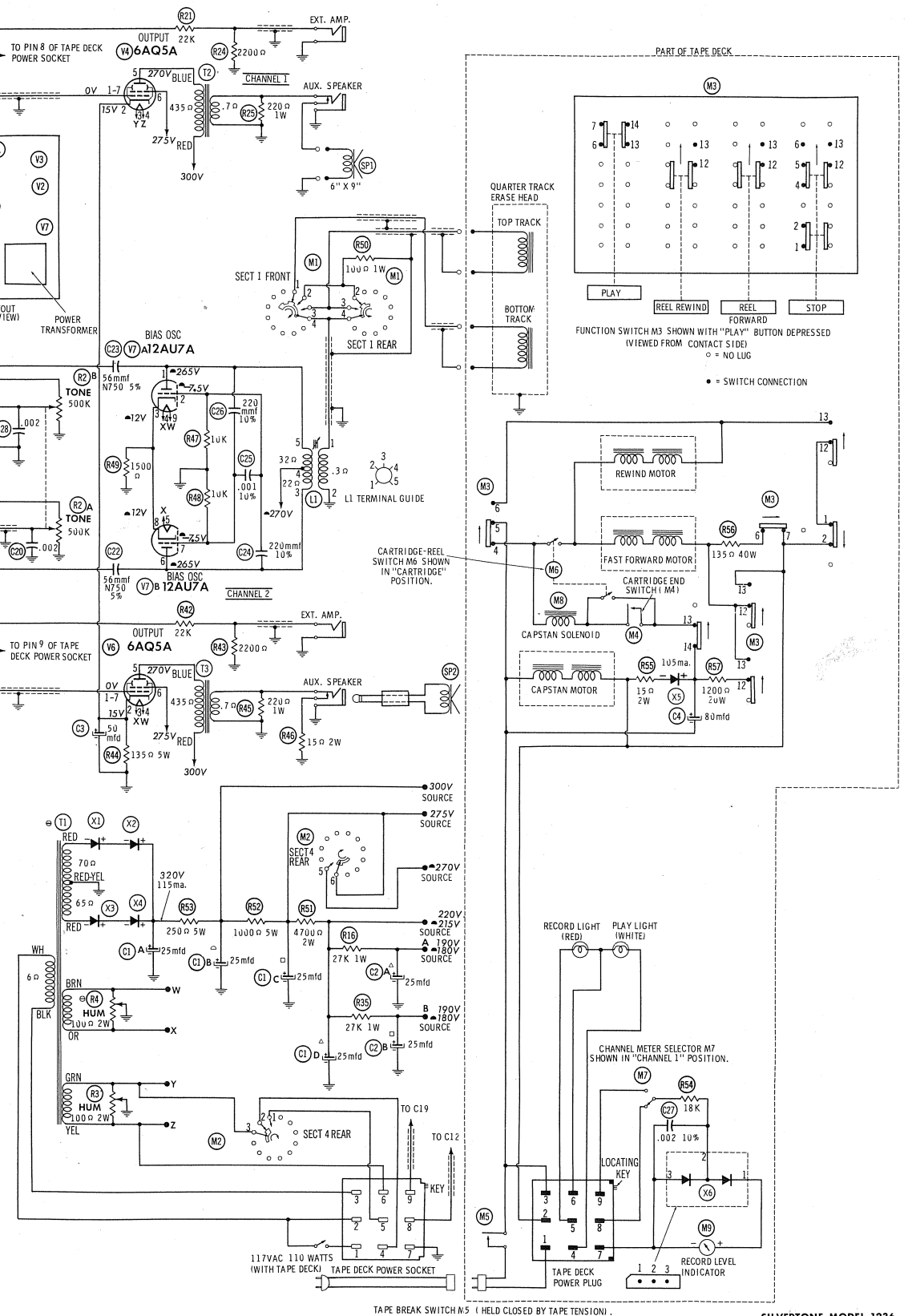
SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common ground.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance of component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
6. All controls at minimum, proper output load connected.

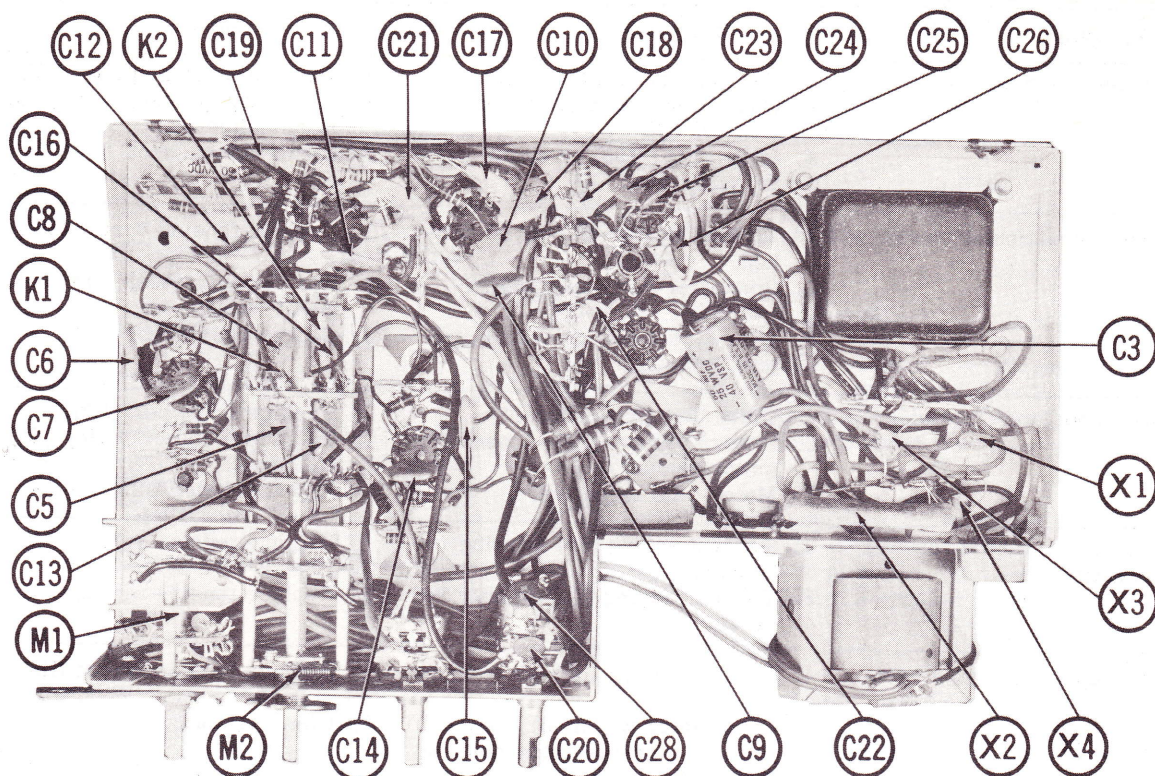
A PHOTOFAC STANDARD NOTATION SCHEMATIC
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RESISTANCE READINGS									
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V1	7025	$\pm 250K$	10meg	0 Ω	25 Ω	25 Ω	$\pm 150K$	470 Ω	25 Ω
V2	7025	$\pm 185K$	0 Ω	1800 Ω	25 Ω	25 Ω	$\pm 185K$	0 Ω	1800 Ω
V3	12AU7A	$\pm 6000\Omega$	500K	34K	25 Ω	25 Ω	$\pm 6000\Omega$	500K	34K
V4	6AQ5A	0 Ω	135 Ω	25 Ω	25 Ω	$\pm 685\Omega$	$\pm 1250\Omega$	NC	
V5	7025	$\pm 250K$	10meg	0 Ω	25 Ω	25 Ω	$\pm 150K$	470 Ω	25 Ω
V6	6AQ5A	0 Ω	135 Ω	25 Ω	25 Ω	$\pm 685\Omega$	$\pm 1250\Omega$	NC	
V7	12AU7A	$\pm 1280\Omega$	10K	1500 Ω	25 Ω	25 Ω	$\pm 1270\Omega$	10K	1500 Ω

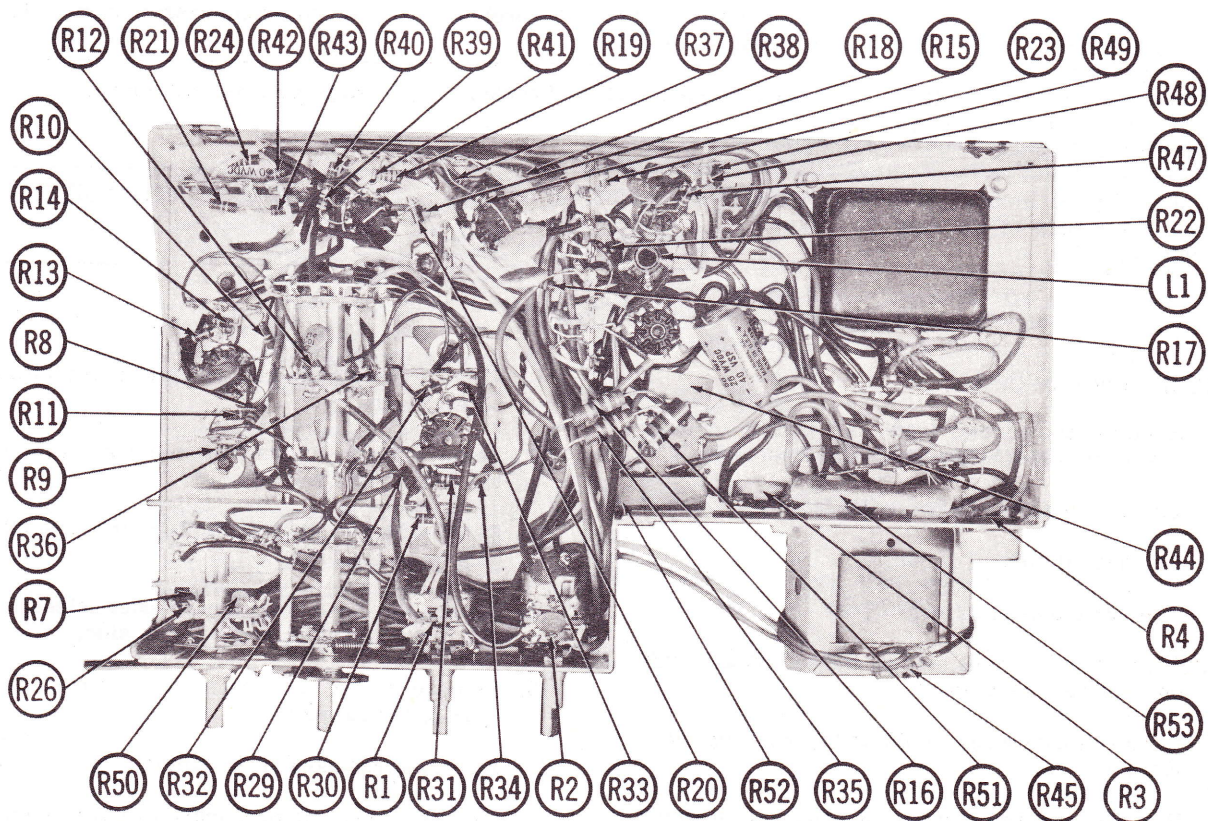
▲ TAKEN IN "RECORD" POSITION.
† MEASURED FROM OUTPUT OF X2 AND X4.



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AMP. CHASSIS BOTTOM VIEW - CAPACITOR & MISC. IDENT.



AMP. CHASSIS BOTTOM VIEW - RESISTOR & INDUCTOR IDENT.

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TROUBLE CHART

Symptom	Cause	Remedy
No takeup on reel.	1. Tension spring off or broken. 2. Connector rod misadjusted. 3. Idler wheel (108) or motor pulley (129) oily.	1. Replace tension spring (50). 2. See "Supply Reel and Take-up Reel" adjustment. 3. Clean with alcohol.
No rewind on reel.	1. Tension spring (50) off or broken. 2. Connector rod misadjusted. 3. Idler wheel (52) or motor pulley (126) oily.	1. Replace tension spring (50). 2. See "Supply Reel and Take-up Reel" adjustment. 3. Clean with alcohol.
Capstan does not rotate.	1. Drive belt (112) broken. 2. Motor pulley (118) loose on motor shaft. 3. Motor (123) defective.	1. Replace drive belt (112). 2. Reposition motor pulley (118) and tighten. 3. Replace motor (123).
Automatic shut-off switch inoperative.	1. Tension spring (63) missing or broken. 2. Tension spring (58) missing or broken.	1. Replace tension spring (63). 2. Replace tension spring (58).
No takeup when using a cartridge.	1. Tension spring (115) off or broken. 2. Oil on idler wheel (91), flywheel (81), or take-up clutch housing (96).	1. Replace tension spring (115). 2. Clean with alcohol.
No rewind when using a cartridge.	1. Cartridge rewind belt (85) off or broken. 2. Oil on flywheel (81), rewind drum (88), or rewind spindle assembly (88). 3. Compression spring (40) broken or lost its tension.	1. Replace cartridge rewind belt (85). 2. Clean with alcohol. 3. Replace compression spring (40).
Pressure roller arm (110) does not pull pressure roller against the capstan.	1. Solenoid spring off or broken.	1. Replace solenoid spring.
Link and pawl release (64) does not return to its rest position.	1. Tension spring (65) off or broken.	1. Replace tension spring (65).

DISASSEMBLY

Removing the Tape Deck

1. Remove six screws from the bottom cabinet cover and remove the cover and interlock.
2. Unplug the enterconnecting plug.
3. Remove all control knobs.
4. Remove the head cover.
5. Remove two screws holding the cartridge guide on, and remove guide.
6. Remove three screws holding the front top dress plate.
7. Remove one hex nut on the channel selector switch.
8. Lift front top dress plate off.
9. Remove the plastic retainer and reel plate, one on each side.
10. Remove three screws from the rear of the back top dress plate and remove.
11. Remove four wood screws holding the tape transport on each corner.
12. Loosen the hex nut on the channel selector and swing the mounting strap to one side.
13. Remove two screws from the post case on the rear of the cabinet.
14. Lift tape transport from cabinet.
15. Reverse foregoing procedure to reassemble.

Removing the Amplifier

1. Remove the cardboard back by sliding it out of its slots.
2. Remove one wood screw holding the bottom of jack shield and slide shield out.
3. Remove three screws holding the jack plate to the cabinet.

4. Disconnect the speaker leads.
5. Remove two screws on the bottom of the cabinet holding the amplifier.
6. Lift amplifier from cabinet.
7. Reverse foregoing procedure to reassemble.

ADJUSTMENTS

Record Head Height

1. Thread a good prerecorded tape onto the recorder.
2. Adjust screws (13) until the loudest sound is obtained while playing the tape.

3. Rewind the tape, place the recorder in record position and erase the tape.
4. Rewind the tape, play it back and adjust screws (13) until a clean erase is obtained.

Erase Head

1. Adjust the erase head so it is parallel with the tape.
2. Make a recording.

Supply Reel and Take-up Reel

Loosen the locking nut on the connecting rod connected to idler control lever (55) and turn the adjusting nut on the connecting rod clockwise or counterclockwise until the correct tension is obtained.

MECHANICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	97-896	#5-40 NC 2x 1/4 Phil. Truss Hd. Machine Screw	34	31-603-0	Cartridge Hold Down Plate
2	84-9304	Head Cover Assembly	35	58-487	Flat Washer
3	97-897	#6-32 NC 2x1/4 Phil. Pan Head Machine Screw	36	39-26-5	Pressure Roller
4	11-1566	Cartridge Guide	37	70-256-0	Plunger Detent Spring
5	84-9271	Spindle Reel	38	39-199-3	Pushbutton Plunger
6		Reel Plate Guide	39		Plunger Spring Stop
7	22-238-0	Plastic Retainer	40	70-379-0	Plunger Spring
8	83-1317	Reel Plate	41	52-1369-0	Selector, Record and Tone Control Knobs
9	52-1284-0	Pushbutton Knob (5)	42	52-1367-0	Inner Volume Knob
10	58-315	Flat Washer	43	52-1368-0	Outer Volume Knob
11	31-577-0	Rear Top Plate	44	84-11885	Counter Assembly
12	84-11965	Front Top Plate	45		Counter Mounting Bracket
13		Head Adjusting Screws	46	97-852	#6-32 NC 2 x 3/16 Phil. Rd. Hd. Sems Machine Screw
14		Erase Head Bracket	47		Flat Washer
15		Tension Spring	48	84-9093	Reel Spindle Drum
16		Erase Head	49	97-472	#6-32 NC 2 x 3/16 Set Screw
17		Spacers	50	70-267-0	Extension Spring
18		Hex Nut	51	22-68-1	"E" Ring Retainer
19		Play-Record and Erase Head Bracket	52*	*39-53-0	* Idler Wheel
20	84-7921	Right Hand Spindle Reel Ass'y.	53	84-9095	Idler Arm Assembly
21	Part of 20	Detent Spring	54	22-68-1	"E" Ring Retainer
22	58-315	Flat Washer	55	22-127-4	Idler Control Lever
23	39-307-3	Post Case (2)	56	22-84-5	Idler Disconnect Link
24		Lock Washer	57	84-9100	Tape Shut-off Return Arm Ass'y.
25		Hex Nut	58	70-497-0	Return Arm Spring
26		Link and Pawl Release Locking Lever	59	84-7916	Tape Shut-off Arm Assembly
27	11-1623	Pushbutton Bracket	60	70-410-0	Torsion Spring
28	52-1331-0	Speed Control Button	61	58-301	Flat Washer
29	70-259-0	Compression Spring	62	22-44-1	"E" Ring Retainer
30		Play-Record Head Bracket	63	70-384-0	Tension Spring
31		Play-Record Head	64	84-9180	Link and Pawl Release
32	57-403211	#4-40 NC 2 x 3/16 Phil. Rd. Hd. Machine Screw	65	70-384-0	Tension Spring
33	58-212	#4 Int. T. Lock Washer	66	72-135	Slide Button
			67	57-604221	#6-32 NC 2 x 1/4 Phil. Hd. Machine Screw

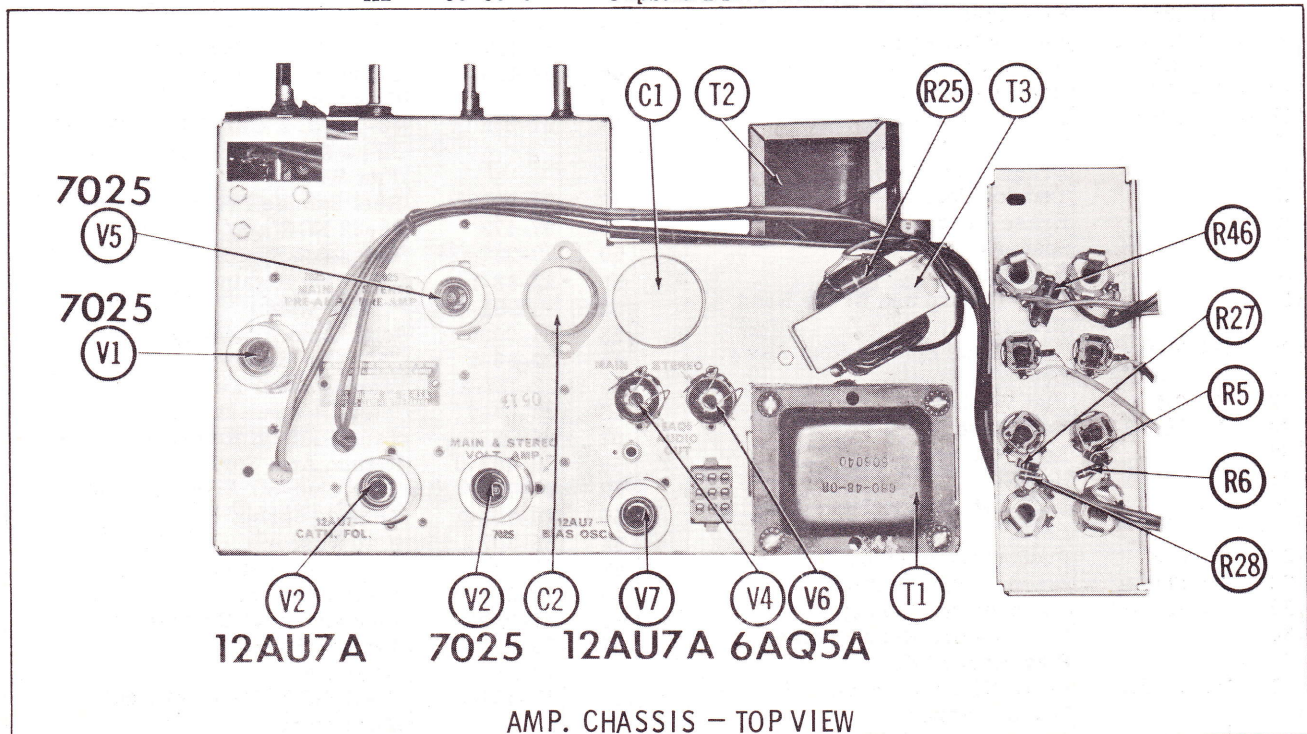
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(Ch. 528.58150, 528.59550)

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MECHANICAL PARTS LIST (CON'T.)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
68	84-9248	Rewind Arm Assembly	102	70-388-0	Compression Spring
69	58-487	Flat Washer	103		Flat Washer
70	84-7282	Spindle Pulley Assembly	104	84-9093	Reel Spindle Drum
71	22-68-1	"E" Ring Retainer	105	83-1345	Counter Drive Belt
72	39-200-3	Pushbutton Rod	106	70-267-0	Extension Spring
73		Compression Spring	107	22-68-1	"E" Ring Retainer
74	84-11607	Speed Change Lever	108*	*39-53-0	* Idler Wheel
75	84-9098	Idler Lever Assembly	109	84-9098	Idler Lever Assembly
76	22-68-1	"E" Ring Retainer	110	84-12177	Pressure Roller Arm Ass'y.
77	70-384-0	Tension Spring	111	70-496-0	Pressure Roller Arm Spring
78	84-7265	Slide and Pressure Pad Ass'y.	112*	*39-39-0	* Capstan Drive Belt
79	72-135	Slide Button	113	22-84-5	Idler Disconnect Link
80	57-604221	#6-32 NC 2 x 1/4 Phil. Flt. Hd. Machine Screw	114	84-9080	Idler Crank Assembly
81	84-9145	Flywheel Assembly	115	70-384-0	Tension Spring
82	58-532	Felt Washer	116		Idler Arm Shaft
83		Tension Spring	117	84-9303	Idler Arm Assembly
84	22-167-1	Retainer Ring	118	39-73-1	Pulley
85	39-37-0	Rewind Drive Belt	119		Hex Nut
86		Washer	120	84-11772	Motor Mounting Sub Base
87	97-472	#6-32 NC 2 x 3/16 Set Screw	121		Motor Spacer
88	84-7911	Rewind Drum Assembly	122		Flat Washer
89	84-9098	Idler Lever Assembly	123	59-164	Motor
90	22-68-1	"E" Ring Retainer	124	84-11946	Fan and Hub Assembly
91*	*39-34-0	* Idler Wheel	125	97-555	#6-32 NC 2 x 1/4 Cup Pt. Allen Socket Set Screw
92	58-315	Flat Washer	126	39-64-1	Motor Pulley
93	22-38-1	"E" Ring Retainer	127	57-806271	#8-32 NC 2 x 3/8 Pl. Hex Hd. Machine Screw
94	58-484	Flat Washer	128	59-155	Rewind Motor
95	70-470-0	Clutch Spring	129	39-64-1	Motor Pulley
96	84-7913	Clutch Housing	130	57-806271	#8-32 NC 2 x 3/8 Pl. Hex. Hd. Machine Screw
97	58-485	Flat Washer	131		Flat Washer
98	21-449-0	Clutch Housing Cover	132	59-160	Fast Forward Motor
99	22-68-1	"E" Ring Retainer			
100	58-365	Flat Washer			
101	22-166-1	Retaining Ring			

52* *39-53-0 * Idler Wheel WALSCO Part No. 1475
 91* *39-34-0 * Idler Wheel WALSCO Part No. 1472
 108* *39-53-0 * Idler Wheel WALSCO Part No. 1475
 112* *39-39-0 * Capstan Drive Belt WALSCO Part No. 1410-50



AMP PARTS LIST AND DESCRIPTIONS

TUBES

TUBES

♦ GENERAL ELECTRIC ♦			RAYTHEON ♦		♦ SYLVANIA ♦	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	
V1	Channel 1 AF Amp.	7025	V4	Channel 1 Output	6AQ5A	
V2	Channel 1 AF Amp. -	7025	V5	Channel 2 AF Amp.	7025	
V3	Channel 2 AF Amp.	12AU7A	V6	Channel 2 Output	6AQ5A	
	Channel 1 Cath. Follower		V7	Bias Oscillator	12AU7A	
	Channel 2 Cath. Follower					

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	CURRENT RATING (Measured)	ORIGINAL Part or Type No.	RECTIFIERS		DIODES		NOTES
			RCA PART No.	SARKES TARZIAN PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	
X1	.115A	86-7-1	1N1763	2F4			
X2	.115A	86-7-1	1N1763	2F4			
X3	.115A	86-7-1	1N1763	2F4			
X4	.115A	86-7-1	1N1763	2F4			
X5	.105A			F6			
X6					6GD1		Meter Rectifier (Dual Selenium)

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	Silvertone PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1A	25	400	18-63-3	AFH3-36	C0270	XC4-49	FP376.5	TMQ-4616	TVL-3780
B	25	400		PRSI740	BR3045		TC75		TVA-1711
C	25	400							
D	25	400							
C2A	25	400	18-14-4	AFH3-129		CX2-14	FP144		TVLS-2662*
B	25	400					TC75		
C3	50	25	18-23-0	PRSI265	BBR50-25	QTI-15	TC29	TD-50-25	TVA-1206
C4	80	200	18-17-4	AFH1-31	A0310	XC1-11	FP128	TMS-1470	TVL-1535

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C5	.1 30V		DI-5000	DA-104	H-05P1	IDP-2-104	TA-010	TG-P10
C6	.005 10%		BPD-05	DD-503	PM6D5	CCD-502	JL-250	10TS-D50
C7	.05		DI-1000	DD-102	CUB6S5	6DP-3-503	GP150	5HK-S50
C8	.001 10%		BPD-05	DD-503	PM6D1	CCD-102	GP210	10TS-D10
C9	.05		BPD-05	DD-503	CUB6S5	6DP-3-503	GP150	5HK-S50
C10	.05		BPD-05	DD-503	CUB6S5	6DP-3-503	GP150	5HK-S50
C11	.01 10%		DI-10000		PM6S1	6DP-2-103	GEM-1611	10TS-S10
C12	.47 150V		P288N-47		CUB2P47	2DP-5-474	GEM-2047	2TM-P47
C13	.1 30V			DA-104	H-05P1	IDP-2-104	TA-010	TG-P10
C14	.005 10%		DI-5000		PM6D5	CCD-502	JL-250	10TS-D50
C15	.05		BPD-05	DD-503	CUB6S5	6DP-3-503	GP150	5HK-S50
C16	.001 10%		DI-1000	DD-102	PM6D1	CCD-102	GP210	10TS-D10
C17	.05		BPD-05	DD-503	CUB6S5	6DP-3-503	GP150	5HK-S50
C18	.05		BPD-05	DD-503	CUB6S5	6DP-3-503	GP150	5HK-S50
C19	.47 150V		P288N-47		CUB2P47	2DP-5-474	GEM-2047	2TM-P47
C20	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-S50
C21	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-D20
C22	56 N750 5%			TCN-56	C10Q56U		CN7-456	10TCU-Q56
C23	56 N750 5%			TCN-56	C10Q56U		CN7-456	10TCU-Q56
C24	220 10%		DI-220	DD-221	L10T22	CCD-221	GP322	10TS-T22
C25	.001 10%		DI-1000	DD-102	5R5D1	CCD-102	GP210	10TS-D10
C26	220 10%		DI-220	DD-221	L10T2	CCD-221	GP322	10TS-T22
C27	.002 10%		DI-2000		PM6D2	CCD-202	GP220	10TS-D20
C28	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA			
			Silvertone PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.
R1A	Loudness, Channel 2	500K	24-424	F1-41, R2-41		
B	Loudness, Channel 1	500K				
R2A	Tone, Channel 2	500K	24-456	B-613, SR-613, KR-1 or (AB-613, SR-613, KR-1, AK-7)		† QJ-1402R
B	Tone, Channel 1	500K				
	With Switch					
R3	Hum Adjust, Ch. 1	100Ω 2W	24-455 ①			110-100
R4	Hum Adjust, Ch. 2	100Ω 2W	24-455			110-100

† "CONCENTRIKIT" Equivalent: K-15 Kit with Base Elements and Shafts:

B13-133, P14-019 (Panel)

B13-133, R1-100 (Rear)

(Not available as a factory assembled unit).

"SNAPTROL" Equivalent:

BU4, CF25, SF1 (Panel)

CR20, SR2, DC1 (Rear)

■ "STA-LOC" Equivalent: FB55A, RU55A, OS562A, IS1000.

① Some Versions may use Part #24-468.

SILVERTONE MODEL 1236
(Ch. 528,58150, 528,59550)

FOLDER 1 1

AMP PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R5	470K				R32	470Ω			
R6	4700Ω				R33	10meg			
R7	220K				R34	220K			
R8	27K				R35	27K 1W			
R9	3.3meg				R36	120K			
R10	120K				R37	180K			
R11	470Ω				R38	1800Ω			
R12	120K				R39	470K			
R13	10meg				R40	1000Ω			
R14	220K				R41	33K			
R15	180K				R42	22K			
R16	27K 1W				R43	2200Ω			
R17	1800Ω				R44	135Ω 5W	PW5-135	5W-SQ-135	
R18	470K				R45	220Ω 1W			
R19	33K				R46	15Ω 2W			
R20	1000Ω				R47	10K			
R21	22K				R48	10K			
R22	220K				R49	1500Ω			
R23	220K				R50	100Ω 1W			
R24	2200Ω				R51	4700Ω 2W			
R25	220Ω 1W				R52	1000Ω 5W	PW5-1000	5W-SQ-1000	
R26	220K				R53	250Ω 5W	PW5-250	5W-SQ-250	
R27	470K				R54	18K			
R28	4700Ω				R55	15Ω 2W			
R29	27K				R56	135Ω 40W			
R30	3.3meg				R57	1200Ω 20W	PW20-1200	20W-SQ-1200	
R31	120K								

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		Silvertone PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman PART No.	
L1	Bias Osc.	10-68-4					

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	Silvertone PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	117V @ 1.2A	540VCT @ 115A DC	8.3V @ 1.1A	C80-48-0B ①					① Alternate Part # 80-48-0
	SEC. 3	SEC. 4	SEC. 5						
	8.3V @ 1.4A								

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	Silvertone PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	5100Ω	6-8Ω	C80-112-1B ①	A-2902 ②		24SL4	S-56Z	① Alternate Part #80-112-1 . ② Drill New Mounting Hole(s).
T3	5100Ω	6-8Ω	C80-112-1B ①	A-2902 ②		24SL4	S-56Z	

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	Silvertone PART No.	QUAM PART No.	
SP1	6"x 9"	PM	6-8Ω	33-432-4	69A3	
SP2	6"x 9"	PM	6-8Ω	33-432-4	69A3	

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	Silvertone PART No.	REPLACEMENT DATA
K1	Loudness Comp.	.006mfd, 120K, 220K	13-48-3	
K2	Loudness Comp.	.006mfd, 120K, 220K	13-48-3	

MISCELLANEOUS

ITEM No.	PART NAME	Silvertone PART No.	NOTES
M1	Switch	69-345-0	Track Selector, Rotary Wafer Type
M2	Switch	69-332-0	Play-Record, Rotary Wafer Type
M3	Switch	69-324-0	Function, Pushbutton Type
M4	Switch	69-317-0	Cartridge End.
M5	Switch	69-354-0	Tape Break
M6	Switch	69-348-0	Selector (Cartridge-Reel) (Toggle Type DPDT)
M7	Switch	69-347-0	Channel Meter (Toggle Type SPDT)
M8	Solenoid	27-101	Cartridge
M9	Meter	83-1322	Record Level Indicator

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft. 17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Power Cord (Interlock Type)	Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)
Low-Loss Shielded Lead (Interconnecting)	Use BELDEN No. 8401 or 8421
Phono Pick-up Arm Cable	Use BELDEN No. 8430 (Two Conductor-Unshielded) 8429 (Two Conductor-Shielded) 8419 (Three Conductor-Shielded)